

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

**ORDER NO. 98-04**

**WASTE DISCHARGE REQUIREMENTS  
FOR  
UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP PENDLETON, CALIFORNIA  
SEWAGE TREATMENT PLANT NO. 9 (LAS PULGAS)  
SAN DIEGO COUNTY**

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On May 4, 1987, this Regional Board adopted Order No. 87-11, National Pollutant Discharge Elimination System (NPDES) Permit No. CA0108251, *Waste Discharge Requirements for the United States Marine Corps Camp Pendleton Sewage Treatment Plant No. 9 (Las Pulgas), San Diego County*. Renewal of this NPDES permit occurred on June 9, 1994 with the Regional Board adoption of Order No. 94-66 (NPDES Permit No. CA0108251), *Waste Discharge Requirements for the United States Marine Corps Camp Pendleton for Plant 9 (Las Pulgas Plant), San Diego County*. Order No. 94-66 established requirements for the discharge of up to 1.10 million gallons per day (mgd) of chlorinated secondary effluent to Las Pulgas Creek.
2. On January 23, 1989, this Regional Board adopted Cease and Desist Order (CDO) No. 89-05, *United States Marine Corps Plant No. 9 (Las Pulgas), San Diego County*. This CDO was issued to the United States Marine Corps for violating discharge specifications contained in Order No. 87-11. CDO No. 89-05 contains a time schedule for the Marine Corps to achieve full compliance with Order No. 87-11 and terminate all discharges not in compliance with the Water Quality Control Plan, San Diego Region (9) (Basin Plan).
3. The United States Marine Corps (USMC) submitted a report of waste discharge on December 9, 1994. The report describes a plan to construct a 0.70 mgd advance wastewater treatment facility at Sewage Treatment Plant (STP) No. 9 and relocate the discharge from Las Pulgas Creek to eight injection wells. The well field is located on the west side of Interstate 5 at the downstream end of the Las Pulgas Hydrologic SubArea (901.52). The injection wells are reportedly designed for 100 gallons per minute @ 39 pounds per square inch (psi). This design will accommodate year-round flow rates including wet weather periods.

4. The injection wells are Class V Injection Wells and are subject to USEPA's Underground Injection Control program pursuant to 40 Code of Federal Regulations Part 144.
5. Sewage Treatment Plant (STP) No. 9 is located along Las Pulgas Creek approximately 2.5 miles east of Interstate 5. In February 1998, the discharger submitted the *Capacity Analysis/Certification Report, Sewage Treatment Plant 9*. The Certification Report establishes the average daily capacity of STP 9 at 0.40 million gallons per day (MGD). The capacity of STP No. 9 is limited by the capacity of the sludge handling facilities. The Base has reported the sludge handling facilities will be modified/upgraded to provided capacity for 0.70 mgd. STP No. 9 serves a current population of approximately 3,600 people in Areas 41 and 43 of Camp Pendleton. The Report of Waste Discharge describes the sewage as domestic in nature and there are no industrial waste contributions.
6. Treatment facilities at STP No. 9 include bar screens, comminutor, grit removal, primary clarification, trickling filtration, secondary clarification, three percolation/evaporation ponds, chlorine contact tank, anaerobic digester, gas burner and three sludge drying beds. Planned plant upgrades include construction of the following advanced wastewater treatment facilities (AWT): flow equalization, rapid mix, flocculation, dual media gravity filters, chlorine contact tank, effluent pipeline, injection wells, emergency storage basin, backwash basins, off-site rechlorination facility, miscellaneous pumps and related appurtenances.
7. The discharger reports that sludge will be digested then dried in the drying beds at the treatment facility. The dried sludge is tested and, based on the test results, is either disposed of in the on-site landfill or disposed of via contracted services.
8. Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 9, Article 1, §2200, the discharge is classified as category 2 threat to water quality and category A complexity.
9. The Regional Board, acting in accord with Section 13244 of the California Water Code, adopted the Water Quality Control Plan for the San Diego Basin (9), (hereinafter Basin Plan) on September 8, 1994. The Basin Plan was subsequently approved by the State Water Resources Control Board (SWRCB) on December 13, 1994. Subsequent revisions to the Basin Plan have also been adopted by the Regional Board and approved by the SWRCB. The Basin Plan contains beneficial uses and water quality objectives. The requirements of this Order are consistent with the Basin Plan.
10. The Basin Plan has not established any beneficial uses or water quality objectives for groundwater west of Interstate 5, in the Las Pulgas Hydrologic SubArea (901.52).

11. In establishing the requirements contained herein the Regional Board considered factors including, but not limited to, the following:
  - a) Beneficial uses to be protected and the water quality objectives reasonably required for that purpose,
  - b) Other waste discharges,
  - c) The need to prevent nuisance,
  - d) Past, present, and probable future beneficial uses of the hydrologic subunits under consideration,
  - e) Environmental characteristics of the hydrologic subunits under consideration,
  - f) Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area,
  - g) Economic considerations,
  - h) The need for additional housing within the region,
  - i) Need to develop and use recycled water.
12. The National Environmental Policy Act (NEPA) of 1969, requires consideration of environmental concerns in the decision making process for major federal actions. NEPA also requires that federal agencies cooperate with state agencies to reduce duplication between NEPA and state environmental regulations. The "Final Environmental Impact Statement, Sewage Effluent Compliance Project, Las Pulgas and San Mateo Areas, February 1997" (FEIS), was prepared in compliance with NEPA. The FEIS discusses the disposal alternatives and identifies environmental impacts and associated mitigation measures for this project.
13. The Final Environmental Impact Statement complies with the California Environmental Quality Act (CEQA) [Public Resources Code (PRC) §21000, et seq.].
14. This Regional Board, as Lead Agency in accordance with CEQA, gave public notice on November 6, 1997 that the Final Environmental Impact Statement prepared in compliance with NEPA meets CEQA requirements and will use the Final Environmental Impact Statement in place of an Environmental Impact Report, as provided for in CCR §15225. Public notice was accomplished by publishing a notice in the San Diego Union Tribune, the Orange County Register and the North County Times.
15. The Regional Board has considered all water resource related environmental factors associated with the proposed discharge of waste from STP No. 9.
16. The Regional Board has notified the United States Marine Corps, Camp Pendleton and all known interested parties of the intent to prescribe waste discharge requirements for the proposed discharge.

17. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed discharge of waste from STP No. 9.

**IT IS HEREBY ORDERED THAT**, the United States Marine Corps (hereinafter Discharger), in order to meet the provisions contained in Division 7 of the California Water Code and Regulations adopted thereunder, shall comply with the following requirements for the discharge of treated wastewater from the Las Pulgas Sewage Treatment Plant to injection wells located at the downstream end of the Las Pulgas Hydrographic SubArea (901.52).

**A. PROHIBITIONS**

1. Discharges of wastes to lands which have not been specifically described in the report of waste discharge and for which valid waste discharge requirements are not in force are prohibited.
2. Neither the treatment, storage, nor disposal of waste shall create a condition of pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.
3. Discharges of treated or untreated solid or liquid waste to a navigable water or tributary of a navigable water are prohibited.
4. Discharges of waste in a manner that would result in any nuisance condition such as ponding of water or surfacing of sewage is prohibited.
5. The dumping or deposition or discharge of waste directly into waters of the state or adjacent to such waters in any manner which may permit its being transported into such waters, is prohibited unless authorized by the Regional Board.

**B. DISCHARGE SPECIFICATIONS**

1. The average dry weather flow from STP No. 9 shall not exceed 0.70 million gallons per day (mgd) unless the Discharger obtains revised waste discharge requirements for the proposed increased flowrate.
2. The average dry weather flow shall not exceed 0.40 mgd until:
  - a. The Regional Board Executive Officer has been notified by the Discharger that the modifications/upgrades to the sludge handling

facilities have been completely constructed, are fully operable and that the completed facilities have adequate capacity for the full design flow;

- b. The Discharger submits a report, signed by a civil engineer registered in the State of California, certifying that STP No. 9 has adequate capacity for an average daily flowrate of 0.70 mgd;
  - c. An inspection of the expanded facilities has been made by staff of the Regional Board; and
  - d. The Regional Board Executive Officer has notified the discharger by letter that a discharge in excess of 0.40 mgd may be initiated.
3. The discharge from STP No. 9 shall not contain constituents in excess of the following limitations:

CONSTITUENT	30-day <sup>*</sup> Avg. (mg/L)	Daily <sup>**</sup> Maximum (mg/L)
Biochemical Oxygen Demand (BOD <sub>5</sub> @ 20°C)	30	45
Total Suspended Solids	30	45
Total Dissolved Solids		1200
pH (within limits shown at all times)	6.0 - 9.0	

\* The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 consecutive calendar day period.

\*\* The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

4. Collected screenings, sludge, other solids removed from liquid wastes, and, filter backwash shall be disposed in a manner described in the Findings of this Order or as approved by the Executive Officer. Sewage sludge treatment and disposal shall comply with Section D, *Biosolids Specifications*, of this Order.

**C. FACILITY DESIGN AND OPERATION SPECIFICATIONS****1. PROPER OPERATION**

The Discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.

**2. OPERATORS' CERTIFICATION**

The Discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23 of the California Code of Regulations.

**3. FLOOD AND RUNOFF PROTECTION**

All waste treatment, containment and disposal facilities shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency. All waste treatment containment and disposal facilities shall also be protected against erosion, overland runoff and other impacts resulting from a 100-year frequency 24-hour storm.

**4. MONITORING AND REPORTING**

The Discharger shall comply with attached Monitoring and Reporting Program No. 98-04, and future revisions thereto as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 98-04.

**D. BIOSOLIDS SPECIFICATIONS**

1. Collected screenings, sludges, other solids removed from liquid wastes, and filter backwash shall be disposed in a manner approved by the Executive Officer.

2. Management of all solids and sludge must comply with all requirements of 40 CFR Parts 257, 258, 501 and 503; CWA Part 405(d), and Title 23, CCR, Chapter 15, including all monitoring, record keeping and reporting requirements. Since the State of California, hence the State and Regional Boards, has not been delegated the authority by the USEPA to implement the sludge program, enforcement of sludge requirements of 40 CFR Part 503 is under USEPA's jurisdiction. Once sludge leaves a facility, it is subject to all applicable local, state and federal laws and regulations.
3. All solids and sludge must be disposed of in a municipal solid waste landfill, reused by land application or disposed of in a sludge-only landfill in accordance with 40 CFR Parts 503 and 258, and Title 23, CCR, Chapter 15. If the discharger desires to dispose of solids or sludge by a different method, a request for permit modification must be submitted to the USEPA and this Regional Board 180 days prior to the initiation of the alternative disposal.
4. Solids and sludge treatment, storage and disposal or reuse shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination.
5. The solids and sludge treatment site and storage site shall have facilities adequate to divert surface water runoff from adjacent areas, to protect the boundaries of the site from erosion, and to prevent drainage from the treatment and storage site. Adequate protection is defined as protection from at least a 100-year storm and protection from the highest possible tidal stage that may occur.
6. The discharge of sewage sludge and solids shall not cause waste material to be in a position where it is, or can be, conveyed from the treatment and storage sites and deposited in the waters of the state.
7. The discharger shall submit a copy of each of the annual reports required by 40 CFR 503 to this Regional Board Executive Officer at the same time those reports are submitted to USEPA. The discharger shall also submit an annual report of the quantity and disposition of sludge generated in the previous calendar year.

**E. STANDARD PROVISIONS****1. DUTY TO COMPLY**

The Discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a report of waste discharge in application for new or revised waste discharge requirements.

**2. ENTRY AND INSPECTION**

The Discharger shall allow the Regional Board, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to do the following:

- (a) Enter upon the Discharger's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this Order,
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order,
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this Order,
- (d) Sample or monitor, at reasonable times for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

**3. CIVIL MONETARY REMEDIES**

The California Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board is subject to a civil monetary remedy of up to 20 dollars per gallon of waste discharged or, if a cleanup and abatement order is issued, up to 15,000 dollars per day of violation or some combination thereof.



4. PENALTIES FOR INVESTIGATION, MONITORING OR INSPECTION VIOLATIONS

The California Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor and is subject to a civil liability of up to 5,000 dollars for each day in which the violation occurs.

5. ENDANGERMENT OF HEALTH AND ENVIRONMENT

The Discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the Executive Officer within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and, if the noncompliance has not been corrected, the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Officer within 24 hours:

- (a) Any bypass from any portion of the treatment facility. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility to other than a sewer system.
- (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.
- (c) Any treatment plant upset which causes the effluent limitations of this Order to be exceeded.

6. PRIOR NOTICE OF BYPASS

If a need for a discharge bypass is known in advance, the Discharger shall submit prior notice and, if at all possible, such notice shall be submitted at least 10 days prior to the date of the bypass. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility to other than a sewer system.

7. CORRECTIVE ACTION

The Discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.

8. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the Discharger that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the Discharger shall, to the extent necessary to maintain compliance with this Order, control production, all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies for example, when the primary source of power of the treatment facility is failed, reduced, or lost.

9. HAZARDOUS RELEASES

Except for a discharge which is compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Director of Environmental Health Services, County of San Diego in accordance with California Health and Safety Code Section 5411.5 and the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the Discharger is in violation of a prohibition in the applicable Water Quality Control Plan.

10. PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters

of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan.

11. PERMIT REPOSITORY

A copy of this Order shall be maintained at the Discharger's facility and shall be available to operating personnel at all times.

12. OPERATION MANUAL

A copy of the facility operations manual shall be maintained at each facility and shall be available to operation personnel and Regional Board staff at all times. The following portions of the operations manual shall be posted at the treatment plant as a quick reference for treatment plant operators:

- a) Alarm set points for secondary turbidity, tertiary turbidity and chlorine residual,
- b) Levels at which flow will be diverted for secondary turbidity, tertiary turbidity and chlorine residual.
- c) When to divert flow for high daily and weekly median total coliform;
- d) When the authorities (DHS, EHD, Regional Board) will be notified of a diversion,
- e) Names and numbers of those authorities to be notified in case of a diversion,
- f) Frequency of calibration for turbidimeters and chlorine residual analyzers.

13. RETENTION OF RECORDS

The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

14. GENERAL REPORTING REQUIREMENT

The Discharger shall furnish to the Executive Officer of this Regional Board, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.

15. CAPACITY NOTIFICATION

When the Discharger determines that STP No. 9 will reach capacity within four years, the Discharger shall submit a technical report to the Regional Board. The technical report shall demonstrate that adequate steps are being taken to provide for future treatment plant capacity demands.

16. PERMIT REVISION

This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a) Violation of any terms or conditions of this Order,
- b) Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts, or
- c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

The filing of a request by the Discharger for the modification, revocation and reissuance, or termination of this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

**17. CHANGE IN DISCHARGE**

The Discharger shall file a new Report of Waste Discharge at least 120 days prior to the following:

- a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the wastes.
- b) Significant change in the treatment or disposal method (e.g., change in the method of treatment which would significantly alter the nature of the waste.)
- c) Change in the disposal area from that described in the findings of this Order.
- d) Increase in flow beyond that specified in this Order.
- e) Other circumstances which result in a material change in character, amount, or location of the waste discharge.
- f) Any planned change in the regulated facility or activity which may result in noncompliance with this Order.

**18. CHANGE IN OWNERSHIP**

This Order is not transferable to any person except after notice to the Executive Officer. The Discharger shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new Discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current Discharger and the new Discharger. This agreement shall include an acknowledgment that the existing Discharger is liable for violations up to the transfer date and that the new Discharger is liable from the transfer date on. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the California Water Code.

**19. INCOMPLETE REPORTS**

Where the Discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information.

20. REPORT DECLARATION

All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:

- a) The Report of Waste Discharge shall be signed as follows:
  - 1) For a corporation - by a principal executive officer of at least the level of vice-president.
  - 2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
  - 3) For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.
- b) All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if all of the following are true:
  - 1) The authorization is made in writing by a person described in paragraph (a) of this provision,
  - 2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, and
  - 3) The written authorization is submitted to the Executive Officer.
- c) Any person signing a document under this Section shall make the following certification,

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

21. REGIONAL BOARD ADDRESS

The Discharger shall submit reports required under this Order or other information required by the Executive Officer to the following address:

**Groundwater Unit  
California Regional Water Quality Control Board  
San Diego Region  
9771 Clairemont Mesa Blvd, Suite A  
San Diego, California 92124-1324**

**F. NOTIFICATIONS**

1. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the Discharger from liability under federal, state or local laws, nor create a vested right for the Discharger to continue the waste discharge.

2. U.S. EPA REVIEW

These requirements have not been officially reviewed by the United States Environmental Protection Agency and are not issued pursuant to Section 402 of the Clean Water Act.

3. SEVERABILITY

The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.


4. ORDER NO. 98-04 BECOMES EFFECTIVE

Order No. 98-04 becomes effective on the date of adoption by the Regional Board.

5. ANNUAL FEES

The Discharger is subject to an annual waste discharger fee as prescribed by California Code of Regulations, Title 23, Section 2200. These annual fees are due and payable at the time invoiced regardless if any discharge for which these waste discharge requirements have been issued has occurred.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on October 14, 1998.

  
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JOHN H. ROBERTUS  
Executive Officer



**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

**MONITORING AND REPORTING PROGRAM NO. 98-04  
FOR  
UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP PENDLETON, CALIFORNIA  
SEWAGE TREATMENT PLANT NO. 9 (LAS PULGAS)  
SAN DIEGO COUNTY**

**A. MONITORING PROVISIONS**

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Order and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than  $\pm 5$  percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:
  - (a) "A Guide to Methods and Standards for the Measurement of Water Flow," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)
  - (b) "Water Measurement Manual," U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Order by Catalog No. 127,19/2:W29/2, Stock No. S/N 24003-0027.)

- (c) "Flow Measurement in Open Channels and Closed Conduits," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273-535/5ST.)
  - (d) "NPDES Compliance Sampling Manual," U.S. Environmental Protection Agency, Office of Water Enforcement. Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80225.)
- 3. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.
- 4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.
- 5. If the discharger monitors any pollutants more frequently than required by this Order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.
- 6. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

7. Records of monitoring information shall include:
  - (a) The date, exact place, and time of sampling or measurements;
  - (b) The individual(s) who performed the sampling or measurements;
  - (c) The date(s) analyses were performed;
  - (d) The individual(s) who performed the analyses;
  - (e) The analytical techniques or method used; and
  - (f) The results of such analyses.
8. All monitoring instruments and devices which are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
9. The discharger shall report all instances of noncompliance not reported under Provision E.5 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Provision E.5.
10. The monitoring reports shall be signed by an authorized person as required by Report and Record Keeping Requirement E.20.
11. A composite sample is defined as a combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.
12. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.
13. Sampling and analysis shall, at a minimum, shall be conducted in accordance with Article 6 of California Code of Regulations, Title 22, Division 4, Chapter 3 (Reclamation Criteria).

**B. EFFLUENT MONITORING**

1. Representative samples of the effluent discharged from the Las Pulgas Plant (STP No. 9) to the injection wells located in the Las Pulgas HSA (901.52) shall be collected in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY
FLOW RATE	MGD	Continuous	Continuous	Monthly
Total Residual Chlorine	mg/L	Continuous	Continuous	Monthly
Biochemical Oxygen Demand (BOD <sub>5</sub> @ 20°C)	mg/L	Composite	Weekly	Monthly
Total Suspended Solids	mg/L	Composite	Weekly	Monthly
Total Organic Carbon	mg/L	Composite	Weekly	Monthly
pH	mg/L	Grab	Weekly	Monthly
Total Dissolved Solids	Unit	Grab	Annually	Annually
Ammonia	mg/L	Grab	Annually	Annually
Aluminum	mg/L	Grab	Annually	Annually
Antimony	mg/L	Grab	Annually	Annually
Arsenic	mg/L	Grab	Annually	Annually
Asbestos	mg/L	Grab	Annually	Annually
Barium	mg/L	Grab	Annually	Annually
Beryllium	mg/L	Grab	Annually	Annually
Cadmium	mg/L	Grab	Annually	Annually
Chromium	mg/L	Grab	Annually	Annually
Copper	mg/L	Grab	Annually	Annually
Cyanide	mg/L	Grab	Annually	Annually
Lead	mg/L	Grab	Annually	Annually
Mercury	mg/L	Grab	Annually	Annually
Nickel	mg/L	Grab	Annually	Annually
Selenium	mg/L	Grab	Annually	Annually
Silver	mg/L	Grab	Annually	Annually
Thallium	mg/L	Grab	Annually	Annually
Zinc	mg/L	Grab	Annually	Annually

Notes: MGD = million gallons per day  
mg/L = milligrams per liter

**C. ANNUAL SUMMARY OF MONITORING DATA**


By January 30 of each year, the discharger shall submit an annual report to the Executive Officer. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements of this Order.

**D. REPORT SCHEDULE**

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

<u>Reporting Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Monthly	January, February, March April, May, June July, August, September October, November, December	By the 30 <sup>th</sup> day of the following month (28th for Feb.)
Annually	January-December	January 30 <sup>th</sup>

Ordered by

  
JOHN H. ROBERTUS  
Executive Officer  
October 14, 1998